

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Withdrawn) A polymer prepared by polymerizing a polymerizable component from a mixture containing said polymerizable component and a surfactant, said surfactant and said polymerizable component being present in said mixture in a molar ratio of at least 0.2 : 1, said material having an average pore size greater than 4 nm and a density greater than 0.1 g/cc.
2. (Withdrawn) The polymer according to claim 1 wherein said polymerizable component comprises a resorcinol/formaldehyde system and said mixture comprises an aqueous solution.
3. (Withdrawn) The polymer according to claim 1 wherein said polymerizable component comprises a divinylbenzene/styrene system and said mixture comprises an organic solution.
4. (Withdrawn) The polymer according to claim 1 wherein said polymerizable component comprises vinylidene chloride.
5. (Withdrawn) The polymer according to claim 1 wherein said polymerizable component comprises a vinylidene chloride/divinylbenzene system and said mixture comprises an organic solution.

6. (Withdrawn) The polymer according to claim 1 wherein said mixture further includes a catalyst.
7. (Withdrawn) The polymer according to claim 1 wherein the surfactant is a cationic surfactant.
8. (Withdrawn) The polymer according to claim 1 wherein the surfactant is an anionic surfactant.
9. (Withdrawn) The polymer according to claim 1 wherein the surfactant is a nonionic surfactant.
10. (Withdrawn) The polymer according to claim 1 wherein the polymer is monolithic.
11. (Withdrawn) The polymer of claim 1, further comprising at least one additive incorporated therein, said additive being selected from the groups consisting of high surface area powders, metal salts, organometallics, and fibers.
12. (Withdrawn) The polymer of claim 1 having a BET surface area of at least about 50 m²/g..

13. (Withdrawn) The polymer of claim 1, further including a quantity of at least one metal powder.

14. (Currently Amended) A carbon prepared according to the following steps:

polymerizing a polymerizable component from a mixture containing said polymerizable component and a surfactant so as to form a polymer, said surfactant and said polymerizable component being present in said mixture in a molar ratio of at least 0.2 : 1 and said polymer having an average pore size greater than 4 nm, and a density greater than 0.1 g/cc;

carbonizing the polymer;

activating the carbon; and

wherein said carbon is an activated carbon and has a volumetric capacitance in a non-aqueous electrolyte of at least 20 F/cc, a pore size greater than 2 nm, a density greater than 0.1 g/cc, a surface area ~~greater than 750 m²/g~~ between 200 and 2,000 m²/g, and an electrical conductivity greater than 10 Scm⁻¹.

15. (Canceled)

16. (Currently Amended) A carbon according to claim 15 having a volumetric capacitance in a non-aqueous electrolyte of at least 20 F/cc, a density greater than 0.5 g/cc, a surface area

between 200 and 2,000 m²/g, an average pore size greater than 10 nm, wherein the carbon has a conductivity of at least 10 Scm⁻¹, and wherein the carbon is an activated carbon.

17-19. (Cancelled)

20. (Withdrawn) A capacitor, comprising:

at least two electrodes, at least one of said electrodes comprising a mesoporous carbon material having a volumetric capacitance in a non-aqueous electrolyte of at least 20 F/cc, a density greater than 0.5 g/cc, an average pore size greater than 10 nm, and a conductivity of at least 10 Scm⁻¹; and

an electrolyte in contact with the electrodes.

21. (Withdrawn) The capacitor according to claim 20 wherein the electrolyte is a non-aqueous electrolyte.

22. (Withdrawn) The capacitor of claim 20 wherein said carbon material is prepared by carbonization of a polymer having a BET surface area of at least about 50 m²/g..

23. (Withdrawn) The capacitor according to claim 20 wherein the carbon material is monolithic.

24. (Previously presented) A porous carbon monolith comprising an activated carbon with at least one dimension greater than 2 mm, a surface area between 200 and 2000 m²/g, a density greater than 0.5 g/cc, a pore size greater than 10 nm, and a volumetric capacitance in a non-aqueous electrolyte of at least 20 F/cc.

25. (Original) The porous carbon monolith according to claim 24 having a conductivity of at least 10 Scm⁻¹.

Claim 26 -- Canceled

27. (Withdrawn) A substrate for liquid chromatography, comprising
a polymer prepared by polymerizing a polymerizable component from a mixture containing said polymerizable component and a surfactant, said surfactant and said polymerizable component being present in said mixture in a molar ratio of at least 0.2 : 1, said material having an average pore size greater than 4 nm and a density greater than 0.1 g/cc.

Claims 28-30 -- Cancelled

31. (Currently amended) A carbon comprising a carbonized polymer having a surfactant, the carbon having a volumetric capacitance in a non-aqueous electrolyte of at least 20 F/cc, a density

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greater than 0.5 g/cc, a surface area ~~greater than 1000~~ between 200 and 2,000 m²/g, and an average pore size greater than 10 nm, wherein the carbon is an activated carbon.

32. (Previously Presented) A porous carbon monolith comprising a carbonized polymer having a surfactant, wherein the carbonized polymer is activated, the carbon monolith with at least one dimension greater than 2 nm, a surface area between 200 and 2000 m²/g, a density greater than 0.5 g/cc, a pore size greater than 10 nm, and a volumetric capacitance in a non-aqueous electrolyte of at least 20 F/cc.